

EAST Search History

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|------|--|----------|------------------|---------|------------------|
| L17 | 1 | ((electrode or anode or cathode) and condenser and proton and concentration and gradient).clm. | US-PGPUB | ADJ | ON | 2008/02/04 14:32 |
| L18 | 1 | ((electrode or anode or cathode) and condenser and proton and gradient).clm. | US-PGPUB | ADJ | ON | 2008/02/04 14:33 |
| L19 | 32 | ((electrode or anode or cathode) and proton and gradient).clm. | US-PGPUB | ADJ | ON | 2008/02/04 14:33 |

EAST Search History

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|---------|---|------------------------|------------------|---------|------------------|
| L7 | 1116 | (proton same concentration same (gradient or distribut\$4)) | US-PGPUB; USPAT | ADJ | ON | 2008/02/04 13:24 |
| L8 | 209 | (proton same concentration same (gradient or distribut\$4)) and fuel cell | US-PGPUB; USPAT | ADJ | ON | 2008/02/04 13:24 |
| L9 | 203 | (proton same concentration same (gradient or distribut\$4)) and fuel cell and membrane | US-PGPUB; USPAT | ADJ | ON | 2008/02/04 13:24 |
| L10 | 203 | (proton same concentration same (gradient or distribut\$4)) and fuel cell and membrane and water | US-PGPUB; USPAT | ADJ | ON | 2008/02/04 13:25 |
| L11 | 146 | (proton same concentration same (gradient or distribut\$4)) same membrane and water and fuel cell | US-PGPUB; USPAT | ADJ | ON | 2008/02/04 13:26 |
| S1 | 35002 | fuel cell | US-PGPUB; USPAT; USOCR | ADJ | ON | 2007/08/08 14:13 |
| S2 | 282959 | hydrophilic or hydrophobic | US-PGPUB; USPAT; USOCR | ADJ | ON | 2007/08/08 14:14 |
| S4 | 212325 | electroly\$3 | US-PGPUB; USPAT; USOCR | ADJ | ON | 2007/08/08 14:15 |
| S5 | 7484 | S2 same S4 | US-PGPUB; USPAT; USOCR | ADJ | ON | 2007/08/08 14:15 |
| S6 | 1661 | S1 and S5 | US-PGPUB; USPAT; USOCR | ADJ | ON | 2007/08/08 14:15 |
| S7 | 248405 | anode or cathode of electrode | US-PGPUB; USPAT; USOCR | ADJ | ON | 2007/08/08 14:16 |
| S8 | 7855 | S2 and S4 and S7 | US-PGPUB; USPAT; USOCR | ADJ | ON | 2007/08/08 14:17 |
| S9 | 1303 | S2 same S4 same S7 | US-PGPUB; USPAT; USOCR | ADJ | ON | 2007/08/08 14:17 |
| S10 | 681 | S9 and S1 | US-PGPUB; USPAT; USOCR | ADJ | ON | 2007/08/08 14:17 |
| S11 | 3154508 | gradient or multilayer\$3 or vary or varied or varying | US-PGPUB; USPAT; USOCR | ADJ | ON | 2007/08/08 14:18 |
| S12 | 7065 | S11 near5 S4 | US-PGPUB; USPAT; USOCR | ADJ | ON | 2007/08/08 14:18 |
| S13 | 46 | S12 and S10 | US-PGPUB; USPAT; USOCR | ADJ | ON | 2007/08/08 14:27 |

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|-----|--------|---|------------------------------|-----|----|------------------|
| S14 | 1951 | S2 near5 S4 | US-PGPUB; USPAT; USOCR | ADJ | ON | 2007/08/08 14:28 |
| S15 | 4 | S14 near5 S11 | US-PGPUB; USPAT; USOCR | ADJ | ON | 2007/08/08 15:40 |
| S16 | 30 | ("2614976" "2927887" "3498899" "3546087" "3681025" "3686091" "3703457" "3730868" "3800410" "3856649" "3911901" "4002547" "4105509" "4115209" "4214968" "4282079" "4357143" "4507194" "4552625" "4597848" "Re24222"). PN. | US-PGPUB; USPAT; USOCR | ADJ | ON | 2007/08/08 14:30 |
| S17 | 3390 | S11 near5 hydrophilic | US-PGPUB; USPAT; USOCR | ADJ | ON | 2007/08/08 16:04 |
| S18 | 2510 | S11 near5 hydrophobic | US-PGPUB; USPAT; USOCR | ADJ | ON | 2007/08/08 15:50 |
| S19 | 55 | S17 same (anode or electrode) | US-PGPUB; USPAT; USOCR | ADJ | ON | 2007/08/08 16:05 |
| S20 | 35 | S17 same S4 | US-PGPUB; USPAT; USOCR | ADJ | ON | 2007/08/08 16:09 |
| S21 | 1294 | ion same S12 | US-PGPUB; USPAT; USOCR | ADJ | ON | 2007/08/08 16:12 |
| S22 | 219 | S21 and S1 | US-PGPUB; USPAT; USOCR | ADJ | ON | 2007/08/08 17:24 |
| S25 | 595296 | condens\$3 | US-PGPUB; USPAT; USOCR | ADJ | ON | 2007/08/08 17:25 |
| S26 | 6030 | S1 and S25 | US-PGPUB; USPAT; USOCR | ADJ | ON | 2007/08/08 17:25 |
| S27 | 2256 | S26 and (S25 same (stack or anode or cathode or electrode or output)) | US-PGPUB; USPAT; USOCR | ADJ | ON | 2007/08/08 17:26 |
| S28 | 866 | S26 and (S25 near5(stack or anode or cathode or electrode or output)) | US-PGPUB; USPAT; USOCR | ADJ | ON | 2007/08/08 17:27 |
| S30 | 308 | S28 and reformer | US-PGPUB; USPAT; USOCR | ADJ | ON | 2007/08/08 17:27 |
| S31 | 426 | S28 and reform\$3 | US-PGPUB; USPAT; USOCR | ADJ | ON | 2007/08/08 17:28 |

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| S32 | 232 | S31 and burn\$3 | US-PGPUB; USPAT; USOCR | ADJ | ON | 2007/08/08 17:28 |
| S33 | 898 | ((anode with (out or outlet)) with condens\$3) | US-PGPUB; USPAT; USOCR | ADJ | ON | 2007/08/08 20:05 |
| S34 | 36 | S33 and (reform\$3) and burn\$3 | US-PGPUB; USPAT; USOCR | ADJ | ON | 2007/08/08 20:45 |
| S35 | 703 | anode same condens\$3 same burn\$3 | US-PGPUB; USPAT; USOCR | ADJ | ON | 2007/08/09 16:55 |
| S36 | 37780 | anode same water | US-PGPUB; USPAT; USOCR | ADJ | ON | 2007/08/09 16:56 |
| S37 | 555408 | membrane or electroly\$3 | US-PGPUB; USPAT; USOCR | ADJ | ON | 2007/08/09 16:56 |
| S38 | 88262 | (ion or charg\$3) near4 partic\$3 | US-PGPUB; USPAT; USOCR | ADJ | ON | 2007/08/09 16:57 |
| S39 | 19088 | S37 and S38 | US-PGPUB; USPAT; USOCR | ADJ | ON | 2007/08/09 16:57 |
| S40 | 1607 | S36 and S39 | US-PGPUB; USPAT; USOCR | ADJ | ON | 2007/08/09 16:58 |
| S41 | 1507 | flood\$3 same anode | US-PGPUB; USPAT; USOCR | ADJ | ON | 2007/08/09 16:59 |
| S42 | 45 | S40 and S41 | US-PGPUB; USPAT; USOCR | ADJ | ON | 2007/08/09 17:10 |
| S43 | 10132 | anode near4 (water or vapor) | US-PGPUB; USPAT; USOCR | ADJ | ON | 2007/08/09 17:46 |
| S44 | 3155 | S43 and fuel cell | US-PGPUB; USPAT; USOCR | ADJ | ON | 2007/08/09 17:46 |
| S45 | 3080 | S44 and S37 | US-PGPUB; USPAT; USOCR | ADJ | ON | 2007/08/09 17:47 |
| S46 | 14967 | (membrane or separator) and electroly\$3 and (conductive or ion or ionic) | FPRS; EPO; JPO; DERWENT | ADJ | ON | 2007/08/10 10:26 |
| S47 | 2407456 | multilayered or layer\$3 or multi\$2layered or bi\$2layer or bilayer | FPRS; EPO; JPO; DERWENT | ADJ | ON | 2007/08/10 13:51 |
| S48 | 4130 | S46 and S47 | FPRS; EPO; JPO; DERWENT | ADJ | ON | 2007/08/10 10:27 |

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| S49 | 1237 | S48 and (fuel cell) | FPRS; EPO; JPO; DERWENT | ADJ | ON | 2007/08/10 10:27 |
| S50 | 300 | S49 and (water or vapor) | FPRS; EPO; JPO; DERWENT | ADJ | ON | 2007/08/10 13:44 |
| S51 | 32 | "5260143" | US-PGPUB; USPAT; USOCR | ADJ | ON | 2007/08/10 16:37 |
| S52 | 1 | "20020001744" | US-PGPUB; USPAT; USOCR | ADJ | ON | 2007/08/10 10:58 |
| S53 | 7 | "6379829" | US-PGPUB; USPAT; USOCR | ADJ | ON | 2007/08/10 10:57 |
| S54 | 4 | "6696186" | US-PGPUB; USPAT; USOCR | ADJ | ON | 2007/08/10 10:52 |
| S55 | 9320 | conducti\$3 near3 charg\$3 | FPRS; EPO; JPO; DERWENT | ADJ | ON | 2007/08/10 11:52 |
| S56 | 174 | concentrat\$3 and S55 | FPRS; EPO; JPO; DERWENT | ADJ | ON | 2007/08/10 11:53 |
| S57 | 2 | S56 and (fuel cell) | FPRS; EPO; JPO; DERWENT | ADJ | ON | 2007/08/10 11:53 |
| S58 | 74 | humid and anode | FPRS; EPO; JPO; DERWENT | ADJ | ON | 2007/08/10 13:50 |
| S59 | 804 | sulfonat\$3 near4 charges | US-PGPUB; USPAT; USOCR | ADJ | ON | 2007/08/10 13:51 |
| S60 | 212541 | electroly\$3 | US-PGPUB; USPAT; USOCR | ADJ | ON | 2007/08/10 13:51 |
| S61 | 0 | S47 same S60 | US-PGPUB; USPAT; USOCR | ADJ | ON | 2007/08/10 13:51 |
| S62 | 1963128 | multilayered or layer\$3 or multi\$2layered or bi\$2layer or bilayer | US-PGPUB; USPAT; USOCR | ADJ | ON | 2007/08/10 13:59 |
| S63 | 63585 | S62 same S60 | US-PGPUB; USPAT; USOCR | ADJ | ON | 2007/08/10 13:52 |
| S64 | 3 | S63 same S59 | US-PGPUB; USPAT; USOCR | ADJ | ON | 2007/08/10 13:56 |
| S65 | 888273 | sulf\$5 | US-PGPUB; USPAT; USOCR | ADJ | ON | 2007/08/10 13:56 |

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| S66 | 721261 | electroly\$3 or separator or membrane | US-PGPUB; USPAT; USOCR | ADJ | ON | 2007/08/10 13:58 |
| S67 | 79853 | S65 same S66 | US-PGPUB; USPAT; USOCR | ADJ | ON | 2007/08/10 13:58 |
| S68 | 150129 | S62 same S66 | US-PGPUB; USPAT; USOCR | ADJ | ON | 2007/08/10 13:58 |
| S69 | 27860 | S67 and S68 | US-PGPUB; USPAT; USOCR | ADJ | ON | 2007/08/10 13:58 |
| S70 | 101356 | multilayered or multi\$2layered or bi\$2layer or bilayer | US-PGPUB; USPAT; USOCR | ADJ | ON | 2007/08/10 13:59 |
| S71 | 17222 | S70 same S66 | US-PGPUB; USPAT; USOCR | ADJ | ON | 2007/08/10 14:00 |
| S72 | 2681 | S67 and S71 | US-PGPUB; USPAT; USOCR | ADJ | ON | 2007/08/10 14:00 |
| S73 | 173 | S72 and (fuel cell) | US-PGPUB; USPAT; USOCR | ADJ | ON | 2007/08/10 14:01 |
| S74 | 169 | S73 and (anode or cathode or electrode) | US-PGPUB; USPAT; USOCR | ADJ | ON | 2007/08/10 14:24 |
| S78 | 2 | "9741168" | US-PGPUB; USPAT; USOCR; DERWENT | ADJ | ON | 2007/08/10 15:39 |
| S79 | 10 | S51 and S65 | US-PGPUB; USPAT; USOCR; DERWENT | ADJ | ON | 2007/08/10 15:39 |
| S80 | 73 | ("3012086" "3172784" "4037024" "4631239" "4684582" "4729932" "4795683" "4826741" "4826742" "4973530" "5047298").PN. OR ("5366818").URPN. | US-PGPUB; USPAT; USOCR | ADJ | ON | 2007/08/10 15:45 |
| S81 | 20729 | water near5 (anode or negative) | US-PGPUB; USPAT; USOCR | ADJ | ON | 2007/08/10 16:37 |
| S82 | 6702585 | remov\$3 or outlet or out or dispos\$3 or exit\$3 | US-PGPUB; USPAT; USOCR | ADJ | ON | 2007/08/10 16:38 |
| S83 | 8396 | S81 same S82 | US-PGPUB; USPAT; USOCR | ADJ | ON | 2007/08/10 16:39 |
| S84 | 1737 | S83 and (fuel cell) | US-PGPUB; USPAT; USOCR | ADJ | ON | 2007/08/10 16:39 |

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| S85 | 187 | S84 and (condens\$3 and (burner or combust\$3) and reform\$3) | US-PGPUB; USPAT; USOCR | ADJ | ON | 2007/08/10 17:02 |
| S86 | 73 | "5366818" | US-PGPUB; USPAT; USOCR | ADJ | ON | 2007/08/10 17:40 |
| S87 | 3240 | 429/34.ccls. | US-PGPUB; USPAT; USOCR | ADJ | ON | 2007/08/10 17:40 |
| S88 | 5154 | 429/30,26,19.ccls. | US-PGPUB; USPAT; USOCR | ADJ | ON | 2007/08/10 17:42 |
| S89 | 660 | S88 and S84 | US-PGPUB; USPAT; USOCR | ADJ | ON | 2007/08/10 17:43 |
| S90 | 76 | "5366818" | US-PGPUB; USPAT; USOCR | ADJ | ON | 2008/01/31 10:33 |
| S91 | 1 | "6777121" | US-PGPUB; USPAT; USOCR | ADJ | ON | 2008/01/31 10:53 |
| S92 | 11400 | fuel cell same (vehicle or automobile or car) | US-PGPUB; USPAT; USOCR | ADJ | ON | 2008/01/31 13:44 |
| S93 | 4 | ("5346778" "5763113" "6087028" "6365291").PN. | US-PGPUB; USPAT; USOCR | ADJ | ON | 2008/01/31 13:44 |
| S94 | 7534 | fuel cell with (vehicle) | US-PGPUB; USPAT; USOCR | ADJ | ON | 2008/01/31 13:46 |
| S95 | 3476 | fuel cell with (vehicle) and "429".clas. | US-PGPUB; USPAT; USOCR | ADJ | ON | 2008/01/31 13:46 |
| S96 | 1193 | fuel cell with (vehicle) and "429".clas. and PEM | US-PGPUB; USPAT; USOCR | ADJ | ON | 2008/01/31 13:46 |
| S97 | 42 | fuel cell with (vehicle) and "429".clas. and PEM and honda | US-PGPUB; USPAT; USOCR | ADJ | ON | 2008/01/31 13:47 |